



# **Functional Independence Mathematics**

**Official Released Items**

## **Grade 4**

---

**Fall 2005  
Official Released Items**

**MICHIGAN STATE BOARD OF EDUCATION  
STATEMENT OF ASSURANCE OF COMPLIANCE WITH FEDERAL LAW**

The Michigan State Board of Education complies with all Federal laws and regulations prohibiting discrimination and with all requirements and regulations of the U.S. Department of Education. It is the policy of the Michigan State Board of Education that no person on the basis of race, color, religion, national origin or ancestry, age, sex, marital status, or handicap shall be discriminated against, excluded from participation in, denied the benefits of, or otherwise be subjected to discrimination in any program or activity for which it is responsible or for which it receives financial assistance from the U.S. Department of Education.

*The Functional Independence Mathematics Assessments* for grades 3 through 8 were administered for the first time in fall 2005. Beginning with this administration, the Office of Educational Assessment and Accountability (OEAA) will release a portion of the items that were administered in each grade each year. This booklet contains released items from the fall 2005 administration and is intended to be used by districts to assist in their interpretation of item analysis data. The information contained in this booklet may also be used by schools, teachers, and parents as a resource for understanding the content and format of the assessment items. In addition to MI-Access training materials and Extended Grade Level Content Expectations (EGLCE), the released items may also have utility in informing decisions related to instruction, curriculum, and assessment. These items are **not** secure and may be copied and distributed as needed.

The table below lists the number of core and released items from the fall 2005 assessment booklets. Core items are those that count toward students' scores. All released items in this booklet were selected from the pool of core items that appeared on the assessment.

**Functional Independence - Mathematics**

| <b>Mathematics Strand</b>      | <b>Number of Core Items</b>                             |
|--------------------------------|---|
| Numbers and Operations         | 16  |
| Measurement                    | 8   |
| Geometry                       | 4   |
| Data and Probability           | 2   |
| <b>Total Core Items/Points</b> | <b>30</b>   |
| <b>Released Items</b>          | <b>10</b><br><b>(Numbers vary by strand and topic.)</b> |

Copyright© 2006, held by the State Administrative Board, State of Michigan. All rights reserved. Printed in U.S.A. **Permission is granted to schools, parents, government agencies and non-profit organizations in Michigan to reproduce and distribute this document for non-commercial use in helping Michigan educators and other citizens in interpreting and using the MI-Access assessment results.**

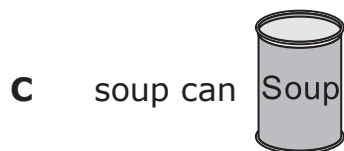
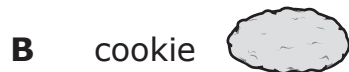
For all instances other than identified in the previous paragraph, no part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior permission from the Office of Educational Assessment and Accountability.

**DIRECTIONS:** Read each question. Choose the **BEST** answer for each question.

Use the pictures below to answer question **R1**.



**R1** What is missing in the pattern?



**R2** What number comes next in the pattern?

**17, 18, 19, \_\_\_\_**


**A** 16

**B** 20

**C** 30

Use the figure below to answer question **R3**.



**R3** Which shape is located to the right of the square  ?

**A**



**B**



**C**



Use the picture below to answer question **R4**.

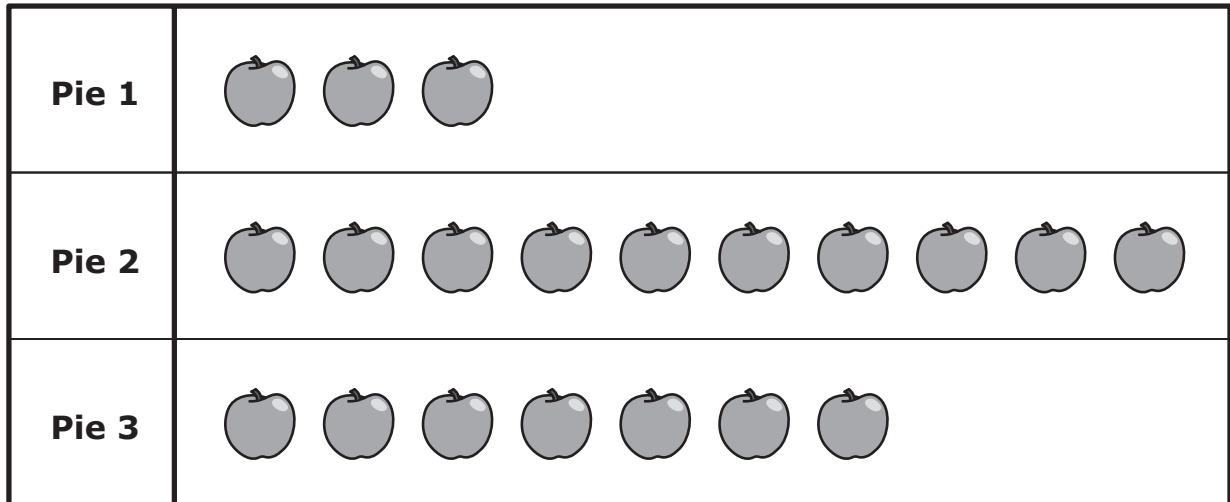


**R4** How many **wheels** are on the tricycle?

- A** 2
- B** 3
- C** 4

Use the graph below to answer question **R5**.

**Apples Used Per Pie**

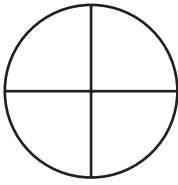


**R5** The graph shows how many apples were used to make each pie.

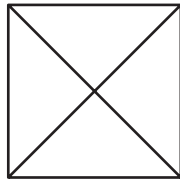
Which pie has the **fewest** apples in it?

- A** Pie 1
- B** Pie 2
- C** Pie 3

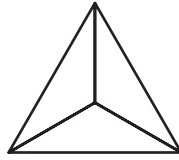
Use the shapes below to answer question **R6**.



**Circle**



**Square**



**Triangle**

**R6** Which two shapes have been divided into the same number of pieces?

- A** circle and square
- B** circle and triangle
- C** square and triangle



**R7** Compare these numbers.

$$25 \square 30$$

- A** 25 is less than 30
- B** 25 is equal to 30
- C** 25 is greater than 30

**R8** Which number is **less than** 3?

**A** 7

**B** 4

**C** 1

---

**R9** Today is Saturday.

What day is tomorrow?

**A** Monday

**B** Wednesday

**C** Sunday

Use the coin below to answer question **R10**.



**R10** Which set of coins has the same value as the coin above?

**A**



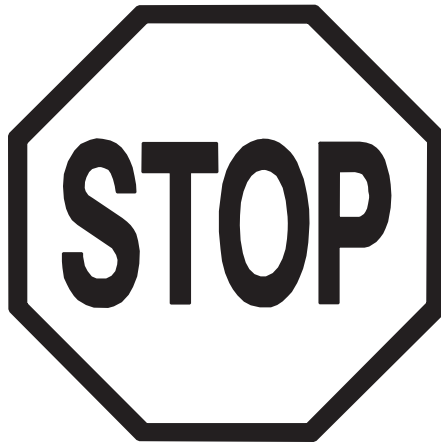
**B**



**C**



Do Not Continue.



**Do not continue until instructed to do so.**

Below is a list of the Extended Grade Level Content Expectations (EGLCE) for each released item found in this booklet. The chart contains the EGLCE code, a brief description of what is measured, and the correct answer for each released item.

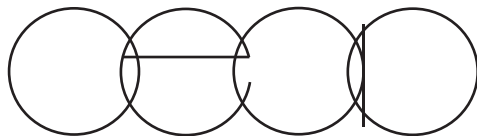
Because the assessment was administered during the **fall** of the school year, only content from the *previous* grade level was measured on the assessment. For example, items eligible for the Grade 4 assessment will measure Grade 3 EGLCE.

Full descriptions of the EGLCE contained in the chart below are available for review and download at **[www.mi.gov/mi-access](http://www.mi.gov/mi-access)**.

| Released Item Number | EGLCE Code   | STRAND<br>or Abbreviated Extended GLCE Descriptor        | Answer Key |
|----------------------|--------------|--|------------|
|                      |              | <b>DATA AND PROBABILITY</b>                              |            |
| R5                   | D.RE.03.EG02 | Read pictographs   | A          |
|                      |              | <b>GEOMETRY</b>  |            |
| R3                   | G.LO.03.EG02 | Use relative position of objects on a plane and in space | A          |
| R1                   | G.SR.03.EG04 | Predict the next element in a simple geometric pattern   | C          |
|                      |              | <b>MEASUREMENT</b>                                       |            |
| R9                   | M.UN.03.EG03 | Use the common words for the parts of the day            | C          |
| R10                  | M.UN.03.EG08 | Match denominations coins/bills                          | C          |
|                      |              | <b>NUMBERS AND OPERATIONS</b>                            |            |
| R4                   | N.ME.03.EG01 | Read, write and count whole numbers to 100               | B          |
| R6                   | N.ME.03.EG02 | Recognize representations for whole numbers to 100       | A          |
| R7                   | N.ME.03.EG05 | Compare and order numbers to 100                         | A          |
| R8                   | N.ME.03.EG05 | Compare and order numbers to 100                         | C          |
| R2                   | N.MR.03.EG09 | Create, describe, and extend number patterns             | B          |



Assessment ● Accountability ● Accreditation TM



Office of Educational Assessment & Accountability

Michigan Department of Education  
Office of Educational Assessment and Accountability  
Assessment for Students with Disabilities Program  
608 West Allegan Street  
P.O. Box 30008  
Lansing, MI 48909  
(517) 241-4416  
[www.mi.gov/mi-access](http://www.mi.gov/mi-access)